

**(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)**

**(19) World Intellectual Property Organization**  
International Bureau



**(43) International Publication Date**  
**27 September 2001 (27.09.2001)**

**(10) International Publication Number**  
**WO 01/71029 A1**

**PCT**

- (51) **International Patent Classification<sup>7</sup>:** C12Q 1/68, C07K 14/575, A61K 48/00
- (21) **International Application Number:** PCT/FI01/00103
- (22) **International Filing Date:** 6 February 2001 (06.02.2001)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**  
60/219,324 21 March 2000 (21.03.2000) US
- (71) **Applicant (for all designated States except US):** **HORMOS MEDICAL OY LTD** [FI/FI]; Tykistökatu 6 A, FIN-20520 Turku (FI).
- (71) **Applicant and**
- (72) **Inventor:** **KAUHANEN, Jussi** [FI/FI]; Lehtikuusikontie 3 B 6, FIN-70620 Kuopio (FI).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **KARVONEN, Matti** [FI/FI]; Kaskenkatu 11 C 54, FIN-20700 Turku (FI). **RESONEN, Ullamari** [FI/FI]; Luodikkokuja 6, FIN-20900 Turku (FI). **KOJLU, Markku** [FI/FI];
- 5** Motivatoren 4 B 8, FIN-20700 Turku (FI). **UUSITUPA, Matti** [FI/FI]; Väilähdentie 10, FIN-70260 Kuopio (FI).
- (74) **Agent:** **ÖHMAN, Ann-Marie**; c/o Hormos Medical Oy Ltd, Tykistökatu 6 A, FIN-20520 Turku (FI).
- (81) **Designated States (national):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) **Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette*

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**WO 01/71029 A1**

- (54) Title:** DIAGNOSIS OF A PERSON'S RISK OF DEVELOPING ALCOHOLISM

- (57) Abstract:** The invention relates to methods for diagnosing a person's susceptibility for having a risk for the development of alcoholism. The invention relates further to methods for treating persons diagnosed for having risk for the development of alcoholism in order to prevent the development of said condition. The invention also concerns methods to investigate or screen pharmaceuticals or genetic aims useful in the treatment of said condition, by using an animal model including a transgenic animal.